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Grain Bin

The Gluten Composition of Wheat Varieties and Genotypes

PART I. GLIADIN COMPOSITION TABLE

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The tabulation provided for gliadins is primarily due to the efforts of one scientist (Dr Metakovsky), using a consistent approach to fractionation and to interpretation (Metakovsky and Novoselskaya 1991), using every effort to ensure the authenticity of the samples analyzed. This list has not been published previously in its entirety, but parts have been published (e.g., Metakovsky 1991).

The list of gliadin composition does not include a wider range of reports from the literature, although the gliadins have been more extensively characterized over a longer period of time than the glutenin subunits. Such information is available via the extensive literature references in Chapters 2 to 4 of the AACCI book “**Gliadin and Glutenin: The Unique Balance of Wheat Quality**”. An obvious difficulty in comparing these diverse sources of information is that there has not been a generally agreed system of nomenclature for gliadin composition for much of the time of that gliadin research has been conducted.

A unifying nomenclature for gliadins, now most generally adopted for gliadins, involves the allocation of alleles for the six loci at *Gli-1* and *Gli-2* for the three genomes (A, B and D). Cultivar names originally published in Cyrillic were transformed into Latin lettering in accordance to the rules described by Martynov et al (1992). The gliadin alleles listed were all determined on the basis of the same procedure of acidic gel electrophoresis (Metakovsky and Novoselskaya 1991).

LITERATURE CITED

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Cultivar	Country of origin	AI	BI	DI	A2	B2	D2
		251/83-89	Bulgaria	b	b	b	b
Abbondanza	Italy	o	9	d	o	p?	a
Ablaca	Spain	f	b	9	a	h*	j
Abo	France	k	b	b	9	b	a
Aboukir	France	k	f	f	l	o	a
Adalid	Spain	9	9	a	f	c	9
Admiral	UK	o	l	l	r	9	9
Adria	Italy	a	9	k	9	o	j
Agrounija 2	Yugosl*	f	l	f/b	b	b	m
Aiglon	France	f	e	b	j	o	9
Akmolinka 1	Russia	q	m	9	k	d	s
Albatros	France	o	9	b	9	l	ac
Albidum 114	Russia	b	b	9	m	h	b?
Albidum 1616	Russia	f	e	a	q	q	a
Albidum 1697	Russia	f	e	a	q	s	a
Albidum 21	Russia	f	e	a	q	s	a
Albidum 24	Russia	f	e	a	q	s	a
Albidum 3700	Russia	f	e	a	q/k	o	a
Albidum 43	Russia	f	e	a	q	o	a
Albidum 604	Russia	k	e	a	q	o	a
Albidum 721	Russia	f	e	a	o	s	a
Alborubrum 1580	Russia	m	m	a	q	c	m
Albota	Rumania	a	b	f	9g	b	b
Alcala	Spain	m	b	i	t	?	j/q
Alcotan (=Caton, Fr)	Spain	f	f	b	P	o	h
Allies	France	f	f	b	j	o	a

Almansor	Portugal	m	c	b	e	c	c
Alpe	Italy	b	b/k	b	b	Y	b
Alto	France	k	f	b	G	o	n
Alvina (Sample 1)	France	b	b	b	e	9	a
Alvina (Sample 2)	France	a	f	b	9	o	q?
Amazonas	Portugal	o	l	b	f	New	a
Amelio	France	f	f	b	l	m	h
Ami	France	o	b	b	G	o	n
Amigo	USA	o	b	b	P	9	h
Anda	Germany	f	b	b	G	o	a
Antimir 67	Bulgaria	a	l	b	b	?	a
Anza	Mexico	a	b	b	f	c	a
Apache	France	o	f	b	P	b	a
Apexal	France	b	e	b	e	b	b
Apollo	Germany	o	l	b	h	l	9
Apostle	UK	b	f	9	l	9	9
Apulia	Italy	a	k	d	G	o	r
Apulia	Italy	Null?	k	.k	f	s	9
Aquila	UK	f	f	l	h	r?	q
Aquila	Italy	f	k	b	h	s	b
Aquileia	Italy	a	k	d	G	o	r
Aradi	Spain	m	o	i	b	c	z
Aragon o3	Spain	m	o	f	u	o	z
Arbon	France	a	b	b	g	ar	v
Arcane	France	a	f	f	g	9	j
Arche	France	o	f	b	l	o	n
Arcole	France	o	f	b	g	o	h
Ardec	Belgium	f	h	m	g	o	n?
Ardica	Spain	f	w	b	e	ag	b
Ardito (Sample 1)	Italy	a	f	f	G	c?	j
Ardito (Sample 2)	Italy	b	k	a	b	b	b
Ardito (Sample 3)	Italy	f	k	d	e	h?	j
Ardito (Sample 4)	Italy	o	f	b	t	c	h
Arfort	France	k	b	a	t	c	m

Argelato	Italy	a	g	b	g	o	j
Ariana 8	Spain	c	b	a	c	c	b?
Ariesan	Rumania	m	k	b	g	?	b
Aristide	France	b	b	j	t	g	q
Arkadia	Ukraina	o	d	b	f	o	b
Armada	UK	m	g	b	g	o	n
Arminda	Holland	f	f	b	r	r	n
Armur	France	k	f	b	G	g	n
Arpain	France	o	b	a	l	g	g
Arpege	France	b	g	b	l	l	a
Arqua	Italy	a	b	k	g	o	r
Arromanches	France	o	m	b	g	g	g
Arsenal	France	f	e	a	e	e	m
Artaban	France	o	f	l	p	ac	a
Artemida	Bulgaria	h	g	b/a	e	b	a
Artu	Italy	a	g	k	g	P	a
Arum	France	b	g	b	l	l	g
Arval	France	f		g	b	g	g
Asiago	Italy	b	b	k	b	o	r
Astral	France	c	f	a	p	g	q
Atys	France	f	f	i	m	o	h
Aubaine	France	f	f	j	t	c	n
Aurelio	Italy	a	e	b	g	o	a
Austerlitz	France	f	f	f	g	l	h
Autonomia B	Italy	a	g	a	o	o	n
Avalon	UK	f	b	b	j	l	g
Avrora	Russia	b/f	l	b	b	b	a
Axel	France	o	f	b	p	o	n
Aztec	France	o	f	b	j	g	a
Bacvanka 1	Yugosl*	a	b	b	b	b	b/a
Balilla	Italy	f	f	b	p	h	b
Balkan	Yugosl*	f	l	b	g	m	b
Balthasar	France	f	f	j	l	ad	a
Banks	Australia	g	b	b	f	c	q

Baranjka	Yugosl*	b	e	k	e	h/x	m/g
Barbilla	Spain	r	g	b	f	h	ak
Baroudeur	France	o	b	b	l	l	h
Basalt	Germany	f	f	j	h	f	g
Bashkirsкая g	Russia	m	e	g	m	o	e
Beauchamp	France	o	f	b	p	l	h
Beaver	UK	b	l	b	r	g	g
Belaviso	France	o	l	b	g	h	h
Belgorodskaya Opushennaya	Russia	o	b	j	n	m	e
Belotserkovskaya 37	Ukraine	l	b	g	e	h	e
Bencubbin	Australia	m	b	a	a	an	w
Benito	Canada	m	d	j	m	c	h
Berlioz	France	f	f	b	l	g	h
Betres (=Pavon 76, Mex)	Spain	f	d	b	f	c	j
Bezenchukskaya g8	Russia	m	b	i	w/m	c?	s
Bezostaya 1	Russia	b	b/d	b	b	b	b
Bezostaya 4	Russia	b	b/d	b	b	b/o	b/e
Bison	France	f	b	b	l	o	h
Blanco Segarra	Spain	o	e/k	a	k/g	z	a
Blanquillo	Spain	f	v	i	ai	ai	x
Blason	France	o	f	b	g	g	h
Bluesky	Canada	m	q?	j	f	c	m
Boigar (=GK Boigar)	Hungary	b	d	k	p	o	m
Bokal	Australia Azerbaijan	f	b	f	a	c	t
Bol-Bugda	o	o	n	a	v	h/q?	h
Bolero	France	f	f	b	l	o	h
Bolero	France	f	f	b	m	o	h
Bon Fermier	France	f	f	l	p	o	n
Bononiya	Bulgaria	b/h	g	h	e	b	h
Bordier	France	f	f	b	p	ab	a
Boreal	France	o	f	a	l	c	h
Bosco	France	f	l	b	e	b	n
Boulmiche	France	o	f	b	m	o	9

Boulmiche (Sample 1)	France	o	f	b	m	o	9
Boulmiche (Sample 2)	France	New	f	i	b	f	a
Bounty	UK	o	f	f	9	9	a
Boxer	?	f	f	b	9	o	n
Brasilia	Italy	a	e/g	a	g/e	v/j	r
Brigand	UK	f	9	b	l	l	9
Brigio	Spain	o	b	f	p	c	m
Brimstone	UK	f	f	f	l	9	a/g
Brock	UK	b	f	b	l	9	9
Bu 20	Hungary	v	b	b	b	b	b
Bungulla	Australia	m	b	h	a	an	w
Buriatskaya 34	Russia	f/b	b	b	q	b	a
Buriatskaya 79	Russia	f	b/e	a/g	q	m	a
But	France	o	f	b	l	9	9
Cabezorro	Spain	d	h	l	a	ag	ak
Cadet	France	o	9	j	l	9	9
Caezium 111	Russia	f	m	i	j	t	ae
Caezium 94	Russia	m	m	i	j	?	k
Caia	portugal	a	h	f	f	c?	c
Cajeme 71	Mexico	o	d	a	p	c	m
Calatrava	Spain	m	h	i	o	o	a
Calodine	Italy	a	9	k	9	h	r
Camp Remy	France	o	f	b	j	o	a
Campeador	Spain	o	f	j	9	ae	h
Canaleja	Spain	m	h	a	u*	?	w
Candéal Alkala	Spain	u	f	i	q*	o	Y
Candéal de Arevalo	Spain	o	o	i	u*	h	a
Canuck	Canada	m/f	d	j	m	c/w	h/m
Cap pelle Desprez	France	o	f	b	9	9	9
Capitole	France	o	f	b	p	9	h
Carat	France	m	b	b	l	l	a
Cargidoc	France	f	f	b	l	9	h
Cargimarec	France	f	e	k	9	c	a
Cargo	France	b	b	b	9	o	a

Carlos	France	a	f	f	9	h	n
Cartaya	Spain	a	l	b	p	c	j
Casavant	Canada	m	b	a	q?	?	a
Castan	France	a	f	b	o	h	n
Caton	France	f	f	b	p	o	h
Centauro	Italy	a	e	k	9	y	j
Centurion (Sample 1)	France	f	b	b	9	l	v
Centurion (Sample 2)	France	o	b	b	9	l	v
Cerere	Italy	m	d	j	f	c	h
Cesar	France	f	h	9	9	d	n
Cezanne	France	f	f	b	h	b	b
Chamorro	Spain	f	f	b	l	o	n
Champion	France	f	f	j?	9	ad	h
Champlein	France	f	f	b	l	o	n
Champtal	France	f	9	b	l	p	a
Charodeika	Bulgaria	b	e	a	e	p/e	b/m
Cherles peguy	France	k	f	b	l	l	h
Cheyenne	USA	b	b	9	j	o	q
Chiarano	Italy	a	f	d	o	?	j
Chinese Spring	China	a	a	a	a	a	a
Chinook	Canada	m	r	j	9	?	h
Chinook	Canada	f	b	a	c	?	a
Choisel	France	f	f	a	p	o	a
Chopin	France	f	d	b	9	ad	h
Ciano 67	Mexico	o	d	f	f	c	j
Cibalka	Yugosl*	b	b	b	b	e	u
Claudia	Hungary	b	b	b	b	b	b
Cledor	France	o	b	b	9	o	a
Clement	Holland	k	l	b	p	l	a
Cluj 650	Rumania	o	j	a	j	j	a
Co pain	France	o	b	b	l	b	h
Cobra	France	b	b	b	e	b	b
Cocagne	France	f	f	b	j	o	9
Cologna 1	Italy	b	e	a	a	o	a

Cologna 21	Italy	a	k	9	9	o	j
Cologna Z	Italy	o	e	a	y	j	c
Columbus	Canada	m	e	j	m	w?	m
Cona	Italy	a	k	k	9	o	r
Concordia	Italy	a	g	a	9	j	a
Condor	Australia	g/a	b	b	f	c	q
Conway	Canada	m	d	j	m	c	h
Cook	Australia	9	b	f	f	c	q
Corin	UK	o	f	l	j	9	9
Cosmos	France	f	g	b	l	o	n
Costante	Italy	o	g	k	9	o	r
Costantino	Italy	a	m	k	9	o	r
Courtot	France	k	b	b	t	c	a?
Creneau	France	k	b	b	9	l	f
Crousty	Sweden	o	f	b	p	l	9
Crvenca	Yugosl*	k	k	9	9	b	k
Curzio	Italy	a/m	9	a	9	o	r
Damiano	Italy	a	e	b	p	h	a
Damiano (Sample 1)	Italy	o	e	d	9	h	a
Damier	France	f	l	b	p	l	a
Dankowska	Poland	d	f	f	9	al	a
Darius	France	o	f	Null	l	9	9
Darkan	Australia	m	b	a	ag	?	w
DaUel	France	f	h	b	9	h	q
David	Italy	l	e	a	e	o	aa
Davidoc	France	f	f	b	9	9	a
Dean	UK	f	l	b	9	l	g/a
DeCarolis	Italy	f	k	d	9	j	a
Decibel	UK	o	e	l	j	9	9
Declic	France	o	b	a	9	v	h
Delfi	France	k	b	b	9	b	b
Demar 4	Italy	f	f	k	9	o	a
Democrat	Italy	a	d	k	b	o	r
Diam	France	o	f	b	j	o	n

Dias2	Russia	f	e	i	q	o	a
Diego	Spain	a?	c	b	c	c	c
Dimas	Spain	o	o	f	p	O?	a
Dirk	Australia	m	b	i	k	aq	w
Divio	France	o	f	b	9	9	v
Djerdanka	Yugosl*	b	e	k/a	e	x?/v	a/m
Dneprovskaya 521	Ukraine	m	d	b	d	b	d
Dobra Pole	Yugosl*	b	g/b	b	b	p	a
Dobrudja 1	Bulgaria	a	k	b	9	b	b
Dollar	UK	c	f	.f	f	9	e
Donskaya Bezostaya	Russia	f	b	9	n/b	m	e
Donskaya Intensivnaya	Russia	f	b	a	n/g	b	e
Donskaya Ostistaya	Russia	b	b	a	m	b	b
Donskaya Poluintensivnaya	Russia	f	b	b	n	m*	k
Donskaya Polukarlikovaya	Russia	b/f	d	a	n	b	b
Druzhina	Russia	a	e	b	c	c.	e/c
Ducat	France	o	f	b	9	9	h
Dukat	Yugosl*	f	l	a	o	ae	a
Dunavka	Bulgaria	b	l	b	b	?	b
Durin	UK	b	g	b	k	9	a
Dusi	Italy	a	o	k	9	o	n/a
Eagle	Australia	m	b	j	c	an	h
Early Triumph	USA	m	b	a	c	c	f
Ecrin	France	b	9	b	t	l	a
Egret	Australia	f/a	b	b	f/a	i	q
Elia	Italy	a	s	b	e/j	h	q
Emblem	Australia	f	b	9	a	i	q
Emilio Morandi	Italy	o	k	b	o	Y	j
Epiroux	France	o	b	b	9	9	v
Eridano	Italy	a	e	b	c	v	c
Ershovskaya 3	Russia	b	d	j	f	o	a
Ershovskaya 32	Russia	a/i	e	a	c	s	e
Erytrospermum 341	Russia	i	x	i	s	q	s
Erytrospermum 59	Russia	k	b	a/b	n?	o	a

Erytrospermum 82/2	Russia	o	x	i	k?	q	s
Erytrospermum 841	Russia	New	k	a	q*	k	a
Escualo	Spain	a	e*	b	c	c	c
Est Motlin	Italy	Null?	s	a	j	aa	q
Este	Italy	a	9	k	9	o	a
Estica	Holland	f	f	b	k	r	a
Estrella	Spain	a	9	b	9	o	j
Etecho	France	o	b	b	9	o	h
Etoile de Choisy	France	o	m	b	p	ae	a
Etruria (Sample 1)	Italy	o	9	k	b	b	j
Etruria (Sample 2)	Italy	o	9	k	b	b	b
Eureka	France	f	b	b	k	l	a
Excelsior	Rumania	b	d	j	b	New	m
F 120/63	Rumania	m	b	9	9	o	u
F 168/62	Rumania	b	d	j	b	p	b
F 36/62	Rumania	b	b	h	e	h	h
F 56/62	Rumania	h	d	h	b	b	b
F 61/63	Rumania	m	b	9	i	?	b
F avori	France	o	f	b	l	o	n
Falcon	Australia	m	b	f	c	an	w
Famese	Italy	a	e	k	9	n	j
Farnese (Sample 1)	Italy	a	e	f	9	j	b
Farneto	Italy	a	b	a	f	c	m
Faust	France	o	m	b	p	9	n
Federation	Australia	f	i	i	a	?	q
Fenman	UK	f	f	b	r	l	a/g
Festiguay	Australia	a	b	f	c	i	t
Festin	France	b	b	b	9	h	a
Festival (sample 1)	France	o	f/b	b	p	9	h
Festival (sample 2)	France	o	f	b	p	b	h
Feuvert	France	f	9	b	9	l	a
Fidel	France	o	f	9	9	o	h
Fief	France	f	f	l	l	9	9
Fiel (=Fidel, Fr)	Spain	m	f	9	9	o	h

Fielder	USA	f	f	i	a	c?	m
Fiocco	Italy	f	l	b	b	c	a
Fiorello	Italy	a	e/o	f/a	9	v	u
Flaminio	Italy	a	9	f	o/9	o	n
Flamura 85	Rumania	f	b	b	t	c	m
Flanders	France	o	f	.b	l	9	n
Flavio	Italy	a	k	k	9	o	a
Fleurus	France	o	f	b	9	o	n
Flinor	France	f	f	b	9	o	a
Floreal	Germany	a	h	l	j	au	a
Florence Aurora	Spain	o	Null	a	c/p	ae	a
Florence Aurore	France	c	b	a	c	c	a
Florin	France	f	f	b	t	9	a
Fluto	France	f	f	b	j	o	a
Fondulea 133	Rumania	a	q	b	f	o	c
Fondulea 29	Rumania	p	l	a	b	?	a
Fondulea 4	Rumania	f	l	b	t	c	m
Forlani	Italy	a	9	d	9	g?	a
Fortin	France	b	f	h	9	9	9
Fournil	France	b	e	9	9	h	q
Frandoc	France	b	b	b	p	9	m
Frassineto	Italy	f	9	k	o	o	n
Fresco	UK	f	f	b	h	o	9
Fridland	France	f	f	b	l	d	h
Fuba	Italy	a	f	f	9	j	a
Funo R250	Italy	a	e	f	9	j	a
Futur	Germany	f	f	b	r	r	9
Gabo	Australia	9	b	f	c	c	t
Gaillard	France	o	m	b	9	ae	9
Gala	France	a	f	b	f	9	n
Galahad	UK	b	9	b	l	9	9
Galaxie	France	a	f	b	l	l	a
Gallini Carlo	Italy	a	k	k	9	o	r
Gallo	Italy	a	q	b	z	j	j

Gambée	Australia	9	b	a	c	c	t
Gamenya	Australia	g/a	b	f	c	c	t
Gamut	Australia	9	b	f	c	c	t
Garant	France	k	b	b	9	v	h
Gatcher	Australia	f	b	a	f?	c	h
Gavroche	France	f	f	b	9	c	a
Gawain	UK	f	9	b	l	l	a
Gazul	Spain	c	r	b	f	p	j
Gemini	Italy	a	e	d	9	o	j
Generoso	Italy	a	9	a	o	a	r
Genial	France	k	f	b	r	r	n
Genoa	Italy	a	b	b	f/u*	c	c
Gentil Rosso 202	Italy	a	e	a	y	j	c
Gentil Rosso 48	Italy	a	e	b	p	ac	9
Gentil Rosso 58	Italy	f	a	k	a	a	r
Gerbier	France	a	f	a	9	9	v
Ghurka	Australia	f	i	g/a	a	ao?	9
Giuliana	Italy	m	q	a	z	w	m
Giurgana 1	Azerbaijan		b	a	v	h	b
Gladio	Italy	a	9	b	b	b	b
Glanor	France	f	f	b	9	a	n
Glenlea	Canada	m	e	j	j	c	m
Glenwari	Australia	m	b	a	a	an	w
Gluclub	Australia	m	h	a	ag	an?	w
Gluyas Early	Australia	m	h	a	u	an	w
Goelent	France	f	q	a	f	a	h
Golia	Italy	a	e	k	9	c	t
Gonen	Turkey	a	9	k	9	o	c
Goya	France	a	q	a	f	c	a
Granarolo	Italy	a	9	k	9	j	r
Grano del Miracolo	Italy	t	o	a	o	ah	a
Halberd	Australia	m	i	i	a	i	w
Hamilcar	France	a	f	b	p	l	n
Hardi	France	a	f	b	p	a	a

Hartog	Australia	f	d	b	f	c	j
Hatif Inversable	France	a	m	b	p	ac	9
Haven	UK	b	l	b	r	9	a
Haymana	Turkey	b/o	b	.9	t?	a	b
Hereward	UK	b	f	b	h	9	a
Heron	Australia	f	i	i	a	i	q
Heurtebise	France	m	b	m	l	9	9
Hickling	UK	a	f	b	p	ac	n
Hlebna	Yugosl*	a	l	b	e	h	a
Hobbit	UK	o/b	f	b	l	9	g
Hobbit	UK	o	f	b	l	g.	9
Holdfast	UK	m	b	f	9	c	New
Hope	USA	m	b	a	m	c	m
Hopps	Australia	c	b	a	c	w	w
Horace	France	f	f	b	p	l	a
Hornet	UK	b	l	b	r	l	9
Hustler	UK	f	g	b	k	l	a
HY-320	Canada	a	r	b/j	f	ak	q?
Hybrid 46	UK	m	g	f	g	1	a
Ibarka	Yugosl*	b	l	b	g	o	b
Ilenskaya	Russia	f	b	New	u	c*	h
Impeto	Italy	a	g	k	o/g	o	a
Inallettibile 96	Italy	o	f/m	b/m	p/b	ac	g
Inallettibile 96	Italy	o	m	b	p	ac	g
Inia 66	Mexico	a	p	j	f	c	j
Insignia	Australia	f	i	i	a	i	q
Insignia 49	Australia	f	i	i	a	i	i
Intensivnaya	Kirgizstan	n/b	n	a/b	a	b	b
Irena	Yugosl*	f	e	a	e	h	m
Iria	Italy	a	g	k	g	h	g
Irkutskaya 49	Russia	k	b	a	q	k/d	k
Irnerio	Italy	a	e	k	g	v	n
ironovskaya Yubileinaya	Ukraine	b	b	g	n	b	e
Irtysanka 10	Russia	k	b	a	k	k	k

Isengrain	France	o	.b	b	t	o	q
Isis	Australia	m/f	c	o/g	a	an/aq	w
Iskra	Yugosl*	b	l	b	b	o	a
Iskra	Russia	t	q	a	k	c	s
Jabiru	Australia	a	i	i	a	i	O?
Jacometti 49	Italy	o	e	a	g	v	a
Jadranka	Yugosl*	a	b	b	e	b	a
Jano	France	f	f	b	j	o	a
Japhet	France	v	h	d	j	n	n
Javelin 48	Australia	f	b	o	a	at	w
Jedina	Yugosl*	a	l	b	e	o	b
Jednota	Yugosl*	a	b	b	e	b	a
Jeja del Pais	Spain	t	t	a	u	ag	a
Jordao	Portugal	New	b	a	j	o	q
Joss Cambier	France	o	f	b	p	l	n
Jugoslavija	Yugosl*	a	l	f	g	b	a
Jupateco 73	Mexico	o	d	a/j	t	p	j/a
K Csongo	r Hungary	c	9	a	9	?	a
K Szeged	Hungary	c	9	b	9	o	m?
K Szemes	Hungary	f/b	l	b/k	b/e	h?	m
K Tiszataj	Hungary	b	b	b	b	v	u
Kadett	Sweden	c	b	b	m	?	q
Kador	France?	k	f	b	g	o	n
Kaliakra	Bulgaria	b	b	j/b	b	p	b
Kaloyan	Bulgaria	b	l	f	g	?	b
Kamchadalka	Russia	f	m	c	u	k	m
Kamyshinskaya 3	Russia	f	e	a	q	o	a
Kanzler	Germany	f	f	b	h	f	a
Karabalikskaya 85	Kazakh.	m/i	e	a	q	q	a
Karagandinskaya 2	Kazakh.	p	n	a	s	q	e?/k
Karagandinskaya 60	Kazakh.	p	e	a	v	c?/d	a
Katepwa	Canada	m	d	j	m	c	h
Katya	Bulgaria	b	e	b	f	New	b
Kavkaz	Russia	b	l	f/b	b	b	a/b

Kazakhstanskaya 126	Kazakh.	n	n	a	a	al?	m
Kazakhstanskaya 3	Kazakh.	b	b	b	b	b	b/m
Kazakhstanskaya 4	Kazakh.	b/f	b/k	b/a	q*	?/q	a
Kazakhstanskaya Ranniaya	Kazakh.	f/i	e	a	q	b/q	e/a
Kenyon	Canada	m	d	j	m/d	c	h
Kharkovskaya 93	Ukraine	f	q	a	s	o	a
Kincso (=GK Kincso)	Hungary	c	g	a	g	p	a
Kirgizskaya Yubileinaya	Kirgizstan	m	e	g	u	u	f
Kishinevskaya 102	Moldavia	b	d	b	i	b	e
Kiszombori 1	Hungary	m	m	a	p	o	q
Kitchener	Canada	m	b	a	m	c	m
Kite	Australia	m	b	f	c	an	h
Kiten	Bulgaria	a	b	b	g	o/p	a
Kometa	Russia	m	k	g	f	c	f
Kondut	Australia	m	c	o	a	?	w
korospelka 3	Russia	b	d	9	g/b	p?	b
Kosovka	Yugosl*	a	b	b	e	h	a
Kraguevac 56	Yugosl*	f	b	b	b	b	b
Kraguevac 58	Yugosl*	f	b	b	b	b	a
Kraguevac 599	Yugosl*	b	l	a?	e/f	b	b
Krajinka	Yugosl*	h	d	b/a	g/j	h/ae	a
Krapets	Bulgaria	f	l	b	b	b	m
Krasnodarskaya 57	Russia	m/b	b	b/f	b	b	e
Krasnodonka	Ukraine	b	h	a	i	b	e
Krasnoarskaya	Russia	k	b	a	q	k	a
Kremena	Bulgaria	a	k	k	g	b	r
Krimka Mestnaya 20	Ukraine	e	b	g	d	o	q
Krimka Odesskaya	Ukraine	m	k	a	k	m?	f?
Krusarka	Yugosl*	m	k	b/a	b/j	?	a
Kurganskaya 1	Russia	b	b/e	b/a	b	b/q	e
KzylBas	Kazakh.	p	n	i	v	c?	k
Lada	Bulgaria	o	b	b.	p	b	e
Lancer	Canada	f	d	j	f	c	h
Lario	Italy	a	e	k	o	o	i

Lasta	Yugosl*	b	b	k	p	o	b
Lastochka	Kazakh.	q	e	g	k	d	a?
Laura	Canada	r	d	b	c/f	c	j
Leader	Canada	m	d	j	f	ak	h
lena	France	f	f	b	t	o	a
Leningradka	Russia	f	e	b	f	h	a
Leone	Italy	o	k	b	g	h	a
Leopardo	Italy	a	k	k	g	v	a
Lepenica	Yugosl*	b	b	a	k	b	a
Lesostepka 75	Ukraina	l	q	g	i	h	e
Levent	Bulgaria	a	o	a/b	g	b	b/u
Libellula	Italy	a	k	b	g	v	a
Libero	Italy	a	k	b	e	New	New
Libero	Italy	f	k	b	e	h?	b
Liocorno	Italy	m	b	k	g	o	m
Livio	Italy	a	g	k	g	j	a
Lodi	France	k	f	f	l	o	New
Loma	Italy	a	b	k	f	v	n
Longbow	UK	o	f	l	l	l	a
Lontra	Italy	o	k	a	o	ac	g
Loreto	Italy	a	c	a	c	c	u
Louvre	Holland	f	f	b	l	l	e
Lovrin 34	Rumania	f	b	b	t	b	m
Lovrin 41	Rumania	b	l	b	t	b	a
Loznicanka	Yugosl*	a	b	f	g	h	a
Lucera	Italy	m	c	g	p	c	a
Ludogorka	Bulgaria	o	b	b	p/b	b	b
Lutescens 1372	Russia	f	e	.b	b	b	a
Lutescens 2	Russia	f	b	a/g	s	k	k
Lutescens 232	Russia	k/o	b	a	k	b	a
Lutescens 30	Russia	k	b	a	k	k	k
Lutescens 34	Russia	k?	b	b	b	k	b
Lutescens 38	Kazakh.	p	e	i	q	s	s
Lutescens 53/12	Russia	f	e	a	q	o	a

Lutescens 55/11	Russia	i	e	a/i	s	q	a
Lutescens 605	Russia	m	b	a	s	c	s
Lutescens 62	Russia	j	e	a	q	o	a
Lutescens 758	Russia	m/j	e	a	q	c/o	a
Lutin	France	k	b	b	g	o	n
M3345	Australia	g	l	b	f	c	q
Macvanka 1	Yugosl*	b	l	f	g	o	b
Macvanka 2	Yugosl*	b	l	f/a	g	o	b
Madden	Australia	a	b	f	c	c	t
Maestra	Italy	f	l	b	b	c	a
Maestro (=Festival, Fr)	Spain	o	f	b	p	z	h
Magali Blondeau	France	m	e	g	l	o	n
Magdalena	France	o	b	a	j	b	a
Magdalena	Spain	m	b	a	m	o	m
Magister	Holland	f	l	b	j	c	n
Magnif 27	Argentina	b	k	b	b	ap	a
Magnifico	Italy	o	g	k	g	o	g
Mahissa 1	Spain	a	e	k	g	v	n
Manital	Italy	a	b	k	g	c	t
Manitou	Canada	m	d	j	m	c	h
Mara	Italy	a	g	k	g	o	r
Marathon	France	f	f	b	l	g	g
Marco	Italy	a	g	k	o	o	r
Marignan	France	o	f	b	p	ac	a
Marija	Yugosl*	a	l	f	e	b	a
Marimp 3	Italy	a	g	k	o	o	r
Marimp 8	Italy	a	g	k	o/g	o	a/r
Maris Beacon	UK	f	f/g	b	l	g/l	a
Maris Bilbo	UK	o	f	b	j	l	g
Maris Freeman	UK	f	f	f	f	f	a
Maris Huntsman	UK	f	g	b	l	l	a
Maris Ranger	UK	f	h	l	f	f	a
Maris Widgeon	UK	o	f	f	g	g	g
Marius	France	o	f	b	p	g	h

Marius	France	o	g	j	l	g	n
Marquis	Canada	m	b	a	m	c	m
Mars	Bulgaria	a	g/l	b	e/c	h*	a
Martial	France	o	f	a	g	v	u
Martonvasari 1	Hungary	b	e	b/a	b	b	b
Martonvasari 15	Hungary	b	l	f	n	e?	m
Martonvasari 2	Hungary	b	m	b/g	j	b	b
Martonvasari 4	Hungary	b	b	b	b	b	b
Martonvasari 5	Hungary	b	b	b	b	b	b
Martonvasari 6	Hungary	v	b	b	b	b	h
Martonvasari 7	Hungary	f	e	b	b	h?	b
Marzotto	Italy	a	g	k	g	o	r
Master	UK	f	g	b	l	f	a
Match	France	f	b.	b	t	c	n
Mayak	Ukraine	o	d	b	b/f	b	e
Mec	Italy	a	g	k	e	h	g
Mendos	Australia	g	b	f	c	c	t
Mengavi	Australia	g	b	f	c	c	t
Mentana	Italy	a	k	a	e	h	j
Mercia	UK	b	f/g	b	k	o	n
Merit	France	o	b	b	p	g	h
Mersey	Australia	f	i	i	a	i	q
Messidor	France	f	f	b	t	o	a
Millewa	Australia	a	c	b	f	c	j
Milos	France?	o	f	b	g	g	n
Milpain	France	b	f	b	g	g	a
Milturum 321 (line)	Russia	t	q	g	k	?	s
Milturum 45	Kazakh.	f	m	i/g	k	t/d	ae?
Milturum 553	Russia	t	q	a	k	c?	s
Mironovskaya 808	Ukraine	f	b	g	n	m	e
Mirtos	Italy	a	b	k	b	b	b
Mission	UK	o	g	b	g	g	n
Mocho Sobarriba	Spain	f	e	?	d	af	a
Mokoan	Australia	f	c	. b	a	ao	q

Momchil	Bulgaria	a	b	b	g	b	b
Monitor	UK	o	b	l	j	g	g
Montcada	Spain	a	e	k	q*	o	r
Montjuich	Spain	f	v	a	h	af	x
Moskovskaya 35	Russia	m	b	b	a	b	f
Moulin	UK	b	f	b	l	g	g
Mura	Yugosf*	l	m	a	g	e	u
Mursa	Yugosl*	m/a	b	b	b	o	j
N.Strampelli	Italy	f	k	b	h	Y	j
Nabat	Russia	i	e	a	n	m	e
Nabucco	France	f	f	b	l	o	h
Nada	Yugosl*	a	e	b/a	e	h	r
Nadadores 63	Mexico	f	b	b	t	c	m
Napayo	Canada	m	d	j/i	m	c	h
Nautica	Holland	f	l	b	p	h	g
Navarro 122	Spain	a	k	a	aa	o	j
Navarro 150	Spain	a	e	a	ab	h	w
Nectar	France	o	f	a	l	g	j
Neepawa	Canada	m	d	j	m	c	h
Negrillo	Spain	f	u/f	i	g	f	a
Nettuno	Italy	a	k	d	g	v	n
New Pusa 834	India	a*	p	a	t	New	p
Niva	Russia	f	q	a	q	o	s
Njivka	Yugosl*	m/a	e	a	g	j	r/b
Nobel	Italy	a	g	k	e	h	g
Noe	Russia	j/m	e	a	New/d	o?/c	a
Noe	France	o	g	b	j	o	n
Nord Desprez	France	o	f	b	j	g	g
Norman	UK	o	f	b	r	l	g
Norrone	Norway	c	b	a	ak	g	a
Nougat	UK	f	f	b	l	l	h
Nova Posavka	Yugosl*	a	b	k	b	o	b
Novosadska 31.83	Yugosl*	a	.b	k	e	h	b
Novosadska 58.04	Yugosl*	b/c	l	a	g	p	a

Novosadska 58.74	Yugosl*	b	b	k	g	b	b
Novosadska 60.02	Yugosl*	a	g	a	g	p	a
Novosadska Rana 1	Yugosl*	a	b	k	g	j	b
Novosadska Rana 2	Yugosl*	b	b	k	g	j	b
Novosibirskaya 67	Russia	f	e	a	q/m	o/c	a
Oderzo	Italy	o	e	a	g	p	m
Odesskaya 16	Ukraine	o/m	b	g/b	f	o	k
Odesskaya 26	Ukraine	c	b	j	f	b	e
Odesskaya 66	Ukraine	b	l/b	f	f	o	a
Odesskaya Polukarlikovaya	Ukraine	b	b	b	b	o	b
Olympic	Australia	f	b	a	o/a	ao	q
Omskaya 11	Russia	f	e	g	k	t	a
Omskaya 12	Russia	f	b	a	u	o	o
Omskaya 17	Russia	f	e	a	n	m	e
Omskaya 18	Russia	f/b	e	b	q/k	b	a
Omskaya 19	Russia	f	e	a	n	m	e
Omskaya 20	Russia	k/o	l/b	a	k	b	a
Omskaya 22	Russia	o	e	a	q	o	a
Omskaya 23	Russia	o	e	i	q	o	a
Omskaya 9	Russia	f/b	b/e	a/b	q/s	b/q	e/b
Omskhi 6	Russia	b	e/l	a	b	b	b
Onohoiskaya 4	Russia	f	e	a	q	o	a
Open	France	e	b	g	n	m	e
Orca	Holland	o	h	l	q	l	j
Orenburgskaya 6	Russia	f	e	a	q	s	a
Orepi	France	f	f	b	r	ab	a
Orlandi	Italy	m	m	b	p	?	j
Ornicar	France	o	f	a	g	o	a
orot	France	o	f	b	l	9	9
Orso	Italy	a	e	f	g	j	j
Orta	Italy	m	g	k	o	o	r/a
Oslo	Canada	p	d	a	f	?	j
Osprey	Australia	a	b	. b	f	c	q
Ouest Desprez	France	o	f	b	b	g	g

Owens	Canada	f	f	i	a	c	j
Oxley	Australia	g	b	b	f	c	q
Pact ole	France	o	f	b	g	g	v
Palata	Italy	o	g	a	e	w	a
Pancevka	Yugosl*	f	b	b	b	b	b
Pandas	Italy	a	m	f	g	o	b
Pane 2	Spain	a	k	a	e	h	w
Pane 247	Spain	a	k	b	p	h	j
Pane 3	Spain	o	k	a	p	h	j
Park	Canada	m	b	j	m	c	h
Parsel	France	o	o	k	g	h	a
Partizanka	Yugosl*	a	b	b	e	h	b
Partizanka Niska	Yugosl*	a	b	b	g	h	a
Pastiche	UK	f	f	b	t	o	a
Pavon 76	Mexica	f	d	b	f	c	j
pegaso	Italy	a	k	f	b	o	r
Peko	Germany	f	h	l	f	f	a
Pelagonija	Yugosl*	a	9	a/b	9	e	j
Pembina	Canada	f	e	j	m	w	h
Pepital	Holland	b	h	b	r	o	a
Peresvet	Ukraine	b	c	f	b	c	b
Pernel	France	c	f	a	9	9	v/h
Petrel	France	o	d	j	p	o	h
Pinnacle	Australia	f	i	i	a	i	q
Pippo	Italy	a	o	k	9	o	n
Pistou	France	f	f	b	o	o	n
Pitoma	Yugosl*	b	l	a/f	e	o	m
Plinio	Italy	a	9	k	o	o	r
Pliska	Bulgaria	b	e	a	p	p	a
Pobeda	Bulgaria	b	b	b	b	m	b
Podunavka 1	Yugosl*	b/a	b	b	b	b	b.
Poljana	Yugosl*	a	l	d	b	?	a
Poljarka	Yugosl*	a/b	f	k	e	v	r
Poltavka	Russia	f/j	e	a	q/k?	o	a/e

Poncheau	France	f	f	b	9	o	n
Potaiissa	Rumania	l	b	a	e	b	e
Potam 70	Mexico	a	p	f	f	c	m
Potam 70	Mexico	a	p/q	f	f	c	m
Predela	Bulgaria	h	9	f	e	b	h
Priam	France	o	f	b	9	ae	h
Priazovskaya							
Uluchshennaya	Russia	c/b	b	g/a	i	h/o	e/q
Priboi	Ukraina	o	b	b	f	o	q
Pricama	Italy	m	b	a	p	w	m
Prinqual	France	f	c	a	c	c	h
Produttore	Italy	a	f	h	e	h	j
Promentin	France	f	l	b	p	o	h
Promin'	Ukraina	b	b	j	f	h	j
Properzio	Italy	a	9	k	9	New	a
Proqual	France	i	f	b	New	b	n
Prostor	Bulgaria	b	b	b	t	?	b
Protinal	France	f	b	b	9	o	n
Pryasna	Bulgaria	m	b	b	b	b	b
Pyrotrix 28	Kazakh.	p	m	9	k	d	a
Quaderna	Italy	a	e	a	e	h	b
Qualital	France	o	f	b	9	m	b
Radja	France	m	b	b	l	c	m
Ranee	Australia	f	i	a	a	at	q?
Ranniaya 12	Russia	b	d	b	b	p	b
Rapier	UK	f	9	b	l	f	a
Ratarka	Yugosl*	a	e	b/a	e	h/e	a/r
Real	France	o	f	b	9	l	a
Recanati	Italy	a	k	k	9	o	r
Recital	France	o	f	b	j	p	n
Red Fife	Galicia+Canada	m	b	b	f	c	q
Regent	Canada	m	e	.a	u	w	m?
Rempart	France	c	m	9	9	b	f
Renan	France	f	b	9	k	m	e
Renania	Germany	o	f	b	r	f	a

Rendezvouz	UK	b	9	b	l	o	a
Rescler	France	f	b	b	t	9	9
Rescue	Canada	f	d	a	m	w	m
Resistente	Italy	a	s	b	e	h	aa
Rex	France	f	b	b	m	c	m
Riband	UK	o	9	b	r	?	a
Rieti	Italy	o	d	9	9	9	b
Rieti	Italy	m	b	b	9	c	b
Rieti 11	Italy	a	f	f	9	j	a
Rieti 75	Italy	o	d	f	h	p	b
Rieti Comune	Italy	f	k	f	p	j	9
Rieti DIV	Italy	o	e	a	a	w	c
Rinconada	Spain	o	d	a	t	c	m
Riol	France	f	b	b	p	ac	n
Rita	Slovakia	f	b	9	b	b	c
Rivoli	France	f	b	b	b	o	n
Roazon	France	o	b	b	9	ar	v
Robin	Australia	f	i	i	a	i	q
Roblin	Canada	f	d	f	m	c	m
Rodina	Russia	f	f/l	b	f?	b	b/a
Rodna	Yugosl*	a	b	b	e	h	a
Rojo Corriente Basto	Spain	m	o	i	k	?	a
Rollo	Norway	o/c	b	a	f/ak	9	a/f
Roma	Italy	f	k	f	p	j	9
Rossijanka	Russia	o	b	a	m	w	h
Rossini	France	b	b	b	l	l	9
Rosso Leonessa	Italy	a	f	b	p	v	j
Rostovchanka	Russia	b/c	b	9	n	b	e
Rouge de Bordeaux	France	v	o	d	j	n	n
Roxo	Portugal	o	f	b	f	?	m
Royal	?	o	b	b	t	9	9
Royo Estava	Spain	m	o	i	a	o	a
Rudi	France	o	h	b	9	9	a
Rurik	Sweden	f	f	b	l	l	9

Rusalka	Bulgaria	m/b	d	a/j	p/b	p	b
Sabre	Australia	m	b	9	c	aq	t
Sabre	UK	f	e	b	l	h	a
Sadovo 1	Bulgaria	h	9	h	e	b/h	h
Sadovo Super	Bulgaria	o/c	f	h	9	h/g	h
Sagvari (=GK Sagvari)	Hungary	f	l	b/k	b	b	b
Saianogorskaya	Russia	k	m	a	q	s	s
Saianskaya 55	Russia	o	b	a	f	s	a
Saito	Italy	a	f	b	p	h	b
Sal 180	Italy	b	b	b	p	h	a
Sal57	Italy	a	k	a	9	o	a
Sal8	Italy	a	r?	j	9	c	q
Saliente	Italy	a	b	f	b	b	a
Salmone	Italy	l	s	b	e	aa	aa
Salvia	Italy	a	9	k	9	o	b
San Lorenzo	Italy	f	k	f	p	j	b
San Michele	Italy	o	m	b	p	ac	9
San Pastore	Italy	a	k	d	9	?	a
San Rafael	Spain	m	o	i	a	ac	a
Sana	Yugosl*	m	e	a	f	e	m
Sanja	Yugosl*	b	e	k	e	h	m
Santerno	Italy	a	e	d	9	v	n
Saratovskaya 210	Russia	f/k	e	a	q	s	a
Saratovskaya 27	Russia	c	i	a	q	o	New
Saratovskaya 28	Russia	m	b	a	q	c	m
Saratovskaya 29	Russia	j/f	e	a	q/s	q/s	e
Saratovskaya 33	Russia	j	e	a	q	o	m
Saratovskaya 36	Russia	i	e	a	s	s	a
Saratovskaya 38	Russia	f	e	.a	q	s	a
Saratovskaya 39	Russia	i	e	a	q/s	q	e
Saratovskaya 42	Russia	f	e	a	q	s	a
Saratovskaya 44	Russia	f	e	a	q	s/q	a
Saratovskaya 45	Russia	m	e	a	q	s	s
Saratovskaya 46	Russia	m	e	a	m	w	a

Saratovskaya 48	Russia	m	e	a	q	s	a
Saratovskaya 49	Russia	i	e	a	c/s	q	e
Saratovskaya 51	Russia	f	e	a	q	q/o	a
Saratovskaya 52	Russia	i/f	e	b	t	s/c	e/m
Saratovskaya 54	Russia	m/f	e	a	q	s	m
Saratovskaya 55	Russia	f	e	a	q	o	a
Sarroza	Russia	f	m	a	q	s	a
Sarrubra	Russia	f/k	m	a	q	s	a
Satellite	Italy	b	k	a	b	b	b/j
Saul	Italy	o	k	b	o	o	r
Saunders	Canada	m	b	j/a	u/m	w	h
Sava	Yugosl*	c	9	a	9	p	a
Savena	Italy	a	9	k	9	v	a
Scipion	France	o	b	a	t	ac	h
Score	France	f	f	b	9	l	a
Selivanovskii Rusak	Russia	i	x	i	s	q	s
Selkirk	Canada	m	e	a	m	c?/w	s/m
Senka	Yugosl*	m	l	f	b	?	a
Sensor	Germany	f	l	b	r	c	h
Severodonskaya	Russia	f	b	9	n	b	b
Severokubanka	Russia	m	b	b	i	b	q
Severokubanskaya 43	Russia	c/b	b	b	9	o	b
Sevillano	Spain	o	r	b	e	p*	q
Shadrinskaya	Russia	f	.e	b	b	b	a
Shango	UK	f	f	b	h	l	a
Sherpa	Australia	f	b	a	a	ao	9
Shortandinka	Kazakh.	p	m	9	k	o	s
Shortandinskaya 25	Kazakh.	i	e	a	s/c	d/s	s
Shortim	Australia	9	b	f	c	c	q
Shtorm	Ukraine	f	l	f	b	b	a
Siavonija	Yugosl*	a	g/e	a	g/e	j/v	r/a
Sibakovskaya 1	Russia	f	q	a	q	o	s
Sibakovskaya 3	Russia	f	e/b	b	q	q/b	e
Sideral	France	o	f	b	r	b	n

Siete Cerros 66	Mexico	a	c	b	c	c	c
Silvana	Rumania	l	k	b	b	b	b
Sinton	Canada	f	d	a	m	c	h
Sistar	Italy	a	e	f	f	h	a
Sivka	Yugosl*	f?	k	d	b	b	b
Skala	Russia	k/h	b	a	k	k	k
Skitiya	Bulgaria	o	f	a	9	9	h
Skopjanka	Yugosl*	b	l	f	9	b	j
Skorospelka							
Uluchshennaya	Russia	m	m	c/New	u/d	al	ae
Slavyanka	Bulgaria	a	9	b/a	b	o	b
Smena	Russia	f	e	a	k	o	a
Snegurka	Kazakh.	q/f	e	a	k	d	a
Soissons	France	k	b	b	t	o	q
Solo	Germany	f	e	d	x	n	a
Sonalika	India	a	k	a	m	c	q
Songlen	Australia	a	b	f	c	c	q
Sorraia	Portugal	a	c	b	f	c	j
Soyuz 50	Belarus	f	b	b	b	m	b
Spada	Italy	k	n	b	c	o	q
Spear	Australia	m	d	i	m	aq	w
Sperber	Germany	o/k	9	l	9	9	m
Spica	Australia	o	b	a	m	c	m
Splendeur	France	o	f	b	9	9	h
Sprint	Italy	a	m	k	k	o	r
Srbijanka	Yugosl*	f	l	b	b	b	b
Sredneurskaya	Russia	t	k	o	f/m	as/c	f
Sredneurskaya 77	Russia	m	k/q	a/g	m	c/?	m/f
Stekvoidnaya 1	Russia	f	e	a	q	s	a
Stetson	UK	f	l	b	9	9	9
Storch	Germany	o	f	b	9	li	9
Stozher	Bulgaria	f	l	k	9	o	r/q
Strela	Russia	t	q	a	m	as	a
Studena	Yugosl*	a	b	f	9	b	b
Suboticanka	Yugosl*	a	b	f	9	b	b

Summit	Australia	f	i	i	a	i	q
SUN89D	Australia	9	l	b	f/c	c	q
Suneca	Australia	o	d	f	m	c	m/j
Super Ziatna	Yugosl*	b	e	k	e	x/h	m/g
Szegedi6	Hungary	b	m	b	p	m	m
T evere	Italy	f	k	b	p	h	9
t.d'Choisy	Fr	a	9	b	9	o	j
Taber	Spain	o	b	k	p	c	m
Taezhnaya	Russia	k	b	a	u	k	a
Takari	Australia	a	b	f	c	i	h
Talent	France	f	f	b	l	o	h
Talento	Spain	f	f	b	l	o	h
Talon	Germany	o	f	b	l	p	a
Tamega	Portugal	a	l	b	p	c	j
Tamis	Yugosl*	b	l	b	e	h	b
Tango	France	o	f	b	l	9	h
Tanjugovka	Yugosl*	a	b	b	9	b	a
Tapio	Finland	c	.b	a	u	au	f
Tarasovskaya 2	Russia	b/o	b	a	n/t	New	b/j
Tarasovskaya 29	Russia	b	b	9	n	b	e
Tarasque	France	o	b	b	c	b	m
Tarquin	France	f	l	b	p	o	a
Tarsa	Australia	9	b	f	c	c	h
Tarskaya 4	Russia	o	k	a	af*	c	q
Teal	Australia	f	c	f	c	i	q
Tejo	Portugal	a	b	b	f	c	a
Tena	Yugosl*	a	b	b	b	v	a
Tenor	France	o/f	f	b	f/l	o/g	m/h
Thatcher	Canada	m	d	j	m	c	h
Thesee	France	f	f	b	l	l	a
Tiberio	Italy	k	d	a	b	p*	a
Tilburi	France	c	f	a	p	9	h
Timgalen	Australia	9	b	f	c	c	q/t
Timmo	Sweden	o	b	a	f	?	a

Timone	Sweden	o	d	b	c	c	j
Timson	. Australia	9	b	f	c	c	q
Timstein	Australia	9	b	b	c	c	q
Tincurrin	Australia	f	h	a	ag	?	w
Titien	France	o	m	b	u	ae	a
Tiumenskaya 2	Russia	k	b	9	k	k	k
Tiumenskaya 80	Russia	k	b	i	k	k	a
Tommaso	Italy	a	k	d	9	v	n
Tonic	UK	c	e	b	o	c	a
Top	France	o	f	b	9	9	a
Torfrida	UK	b	f	b	k	o	a
Touzelle	France	e	null	null	o	o	q
Tracy	France	b	9	b	l	l	a
Trakia	Bulgaria	b	b	b	p	b	b
Trayana	Bulgaria	m	d	. b	b	b	b
Tremie	France	b	b	b	l	l	9
Trento	Italy	f	m	a	e	h	j
Tselinnaya 20	Kazakh.	f	e	a	q	d	e
Tselinnaya 21	Kazakh.	f	e	a	q	d	e
Tselinnaya 26	Kazakh.	i	e	a	c	s	s
Tselinnaya 60	Kazakh.	i	e	a	c	s	s
Tselinnaya Yubilejnaia	Kazakh.	f	e	a	q	d/m	e
Tselinogradka	Kazakh.	f	e	i	k	t.	a
Tua	Portugal	f	d	b	f?	c	n
Tundzha 1	Bulgaria	f	b/f	b/h	l/g	g/l	h/a
TW-275	UK	f	9	a	l	am	a
Ukrainka	Ukraina	c	b	a	i	h	e
Ulm	France	k	f	b	l	9	n
Unic	France	b	l	b	9	9	h
Uralochka	Russia	f	b	a	m	am	q
Uralskaya 52	Russia	m	e	a	q	?	a
Urozhainaya	Russia	f/b	b	b	n/i	m*	k
Valle d'Oro	Yugosl*	b	e	a	e	e	m
Valor	Canada	f	b	9	n	m	e

Vardarka	Yugosl*	a	9	b	9	o	j
Vasco	Holland	o	l	l	p	c	n
Veda	Italy	b	b	b	f	ap	q
Vega	Bulgaria	b	d	b	9	p	r/n
Vega	Russia	i	e	a	q	q	a
Velutium 30	Kazakh.	p	e	g/a	k	s/d	a
Vera	Russia	b	b	b	q	b	b
Veronese	Italy	f	e	a	e	e	m
Vesna	Russia	j	e	a	k	c	a
Vesnianka	Russia	k	b	a	q	s	a
Victor	Italy	a	9	b	9	o	j/r
Viking	Denmark	o	.g	b	l	9	9
Viking	?	o	h	l	g	l	h
Viktorija	Yugosl*	b	b	b	9	b	r
Villa Glori	Italy	f	f	f	p	j	9
Vilmorin 27	France	o	f	b	9	o	9
Vinci	Italy	a	9	k	e	h	r
Virtue	UK	b	9	b	k	o	a
Vizir	France	b	f	b	9	h	m
VK-33-Z	Yugosl*	l	b	b	9	e	u
Voishebnitsa	Bulgaria	o	b	b	c	b	a/q
Volzhanka	Russia	m	e	9	m	o	a
Voskhod	Ukraine	o	e	a	f/b	b	k
Voyage	UK	m	l	b	9	o	n
VPM-1	France	New	b	b	k	ar/?	v
Vratza	Bulgaria	b	b	b	e/g	o	b
Warimba	Australia	a	b	b?	c	c	c
White Fife	Canada	f	b	b	9	?	New
Wildcat	Canada	f?	b	j	k	c	j
Winglen	Australia	m	b	9	f	aq	q
Wren	Australia	f	b	o	a	at	w
Yakutianka 224	Russia	m	q	a	ag	?	a
Yantar	Bulgaria	m	b	b/j	b	b	b
Yecora Roja	Mexico	o	d	a	p	c	m

Yeoman	UK	f	f	m	r	o	a
Yubiley	Bulgaria	a	b	b	9	b	b
Yu-Evropa	Yugosl*	f	b	k	l	9	9
Yu-Francuska	Yugosl*	f	b	k	l	9	9
Yu-Italija	Yugosl*	c	9	b/a	9	m	a/b
Zagore	Bulgaria	p	d	a	p/e	p?	b
Zagrepcanka 2	Yugosl*	a	9	k	e	p	b/a
Zaporozhskay Ostistaya	Ukraina	b	b	g/b	f/b	b	e
Zarnitsa	Russia	k	b	a	q	k/s	a
Zarnitsa	Ukraina?	f/b	b	.a/b	b/n	b	d
Zauralskaya	Russia	f	b	b	b	b	b
Zelengora	Yugosl*	a	l	f	9	b	a
Zena	Italy	a	9	k	k	o	a
Zenith	Australia	f	i	i	a	i	i?
Zernogradka 2	Russia	b	l	b	f	o	b
Zernogradka 3	Russia	f	b	9	9	b/m	e
Zernogradka 5	Russia	b	d	b	f	b/?	d
Zernogradka 6	Russia	f	b	9	b	m	b
Zhigulevskaya	Russia	m	b	b	b	c?	s
Ziatna Dolina	Yugosl*	b	e	a	e	e	m
Ziatoklas	Bulgaria	b	b	b	b	o	m
Ziatostrui	Bulgaria	a	9	h	e	c	c
Zirka	Ukraina	b	d	b	f	h	j
Zitarka	Yugosl*	a	f	f	p	b/v	b
Zitnica	Yugosl*	b	9	k	g/b	p	b
Zvezda	Yugosl*	b	l	f	g	b	b